

FIG. 1

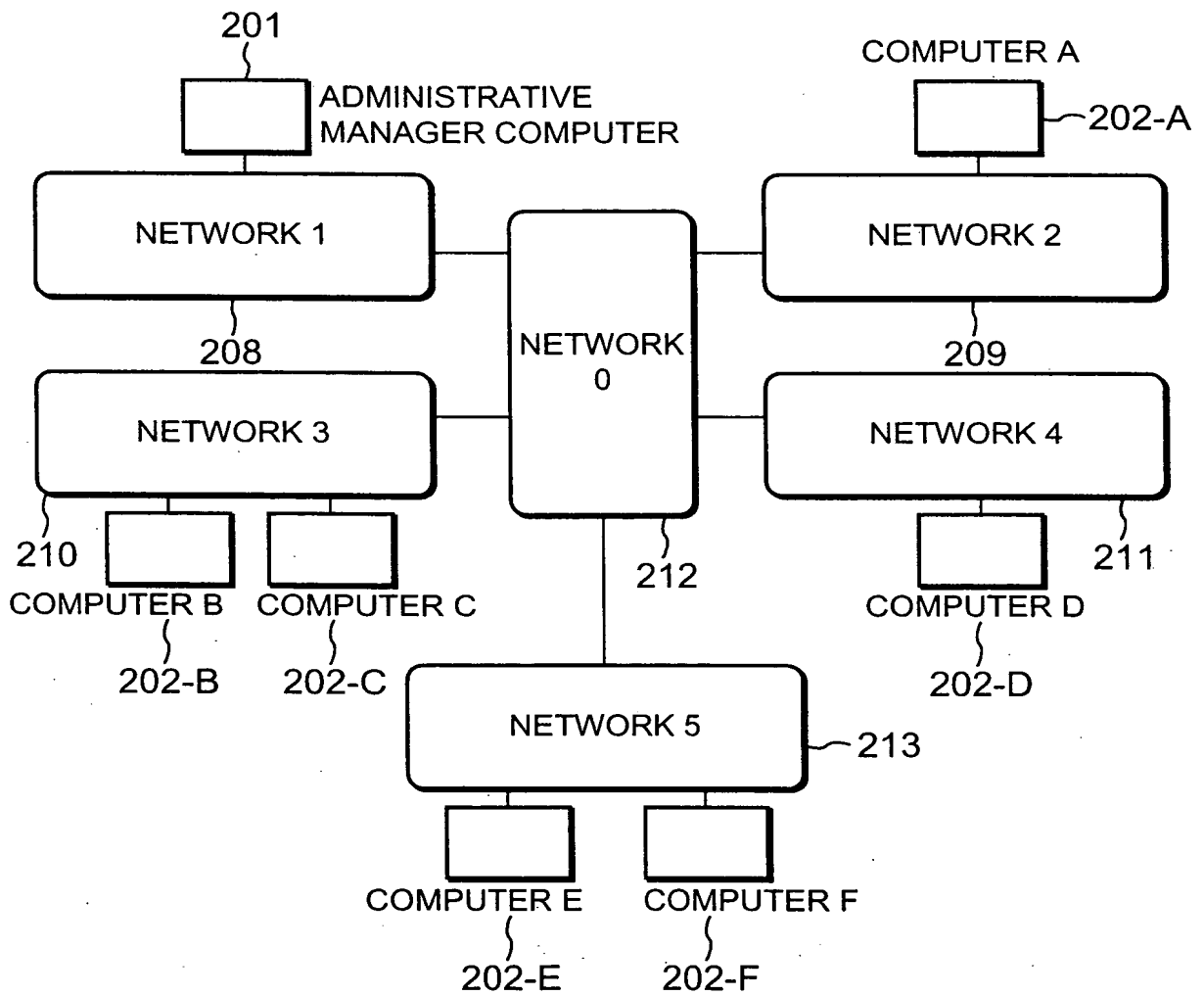


FIG.2

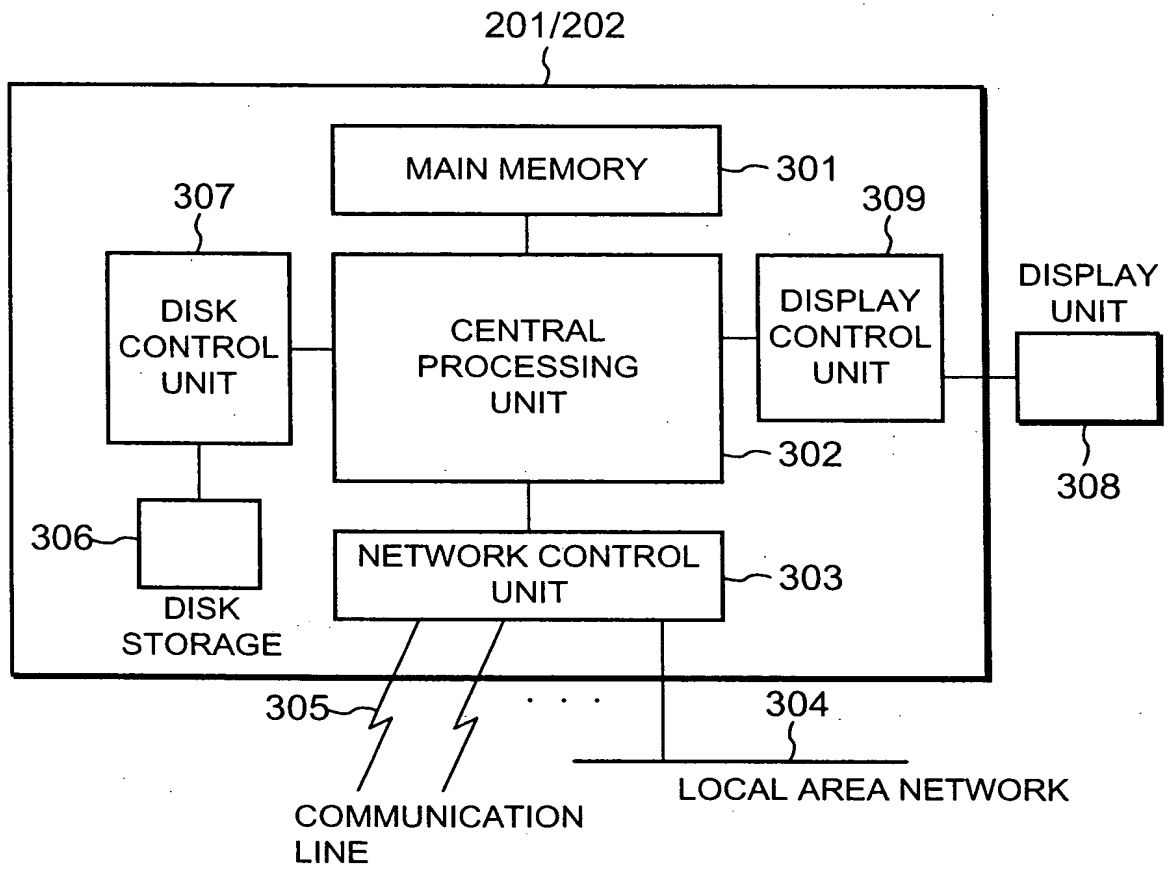


FIG.3

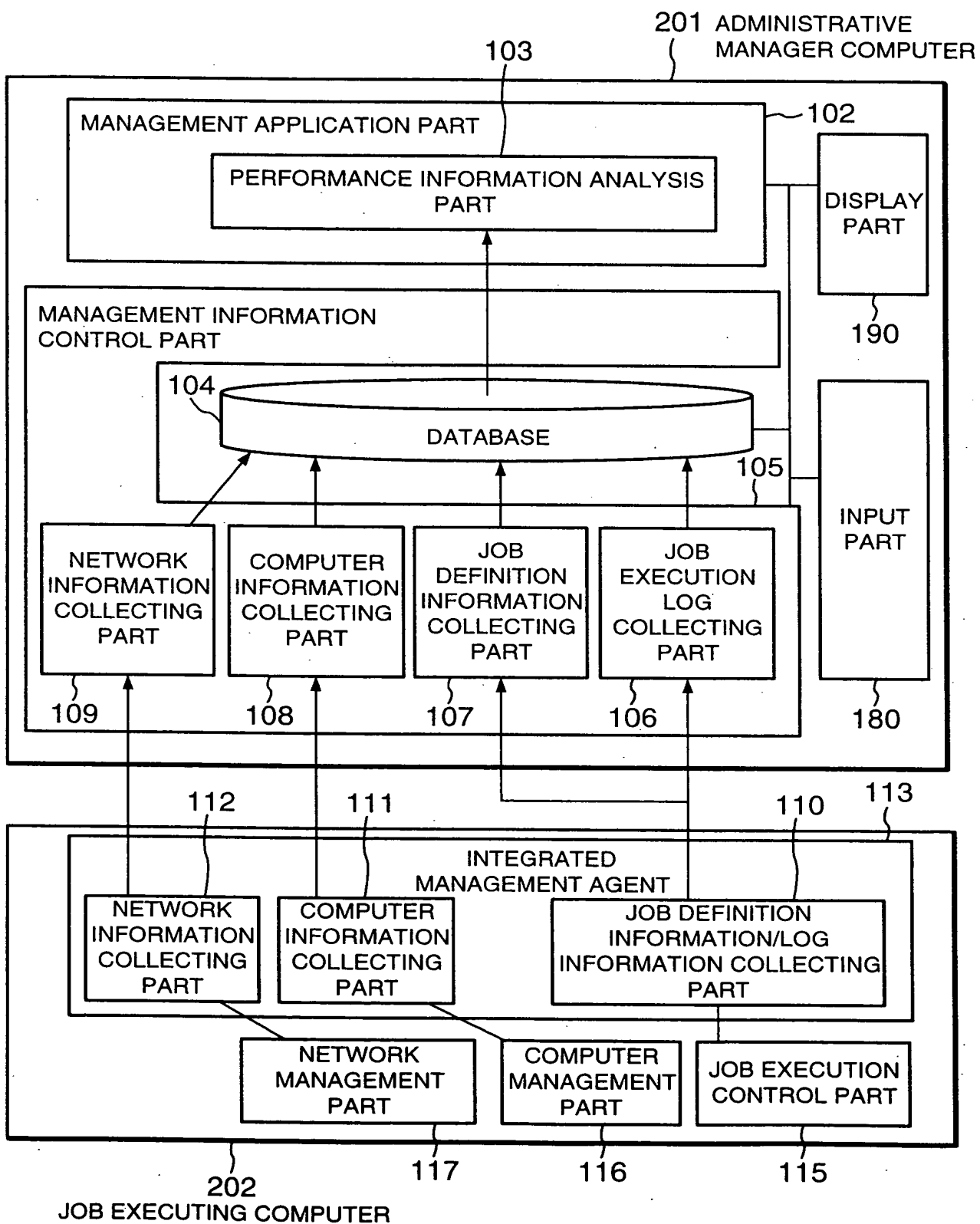


FIG.4A

JOB NET DEFINITIONS

OPERATIONAL DEFINITION IDENTIFIER	JOB NET NAME	STARTING DAY OF THE WEEK/ STARTING DAY	START TIME	COMPONENT JOBS DEFINITION
1101	JOB NET A	MONDAY - FRIDAY	9:30	JOB 1, {JOB 2, JOB 3}, JOB 4, JOB 5
1102	JOB NET B	MONDAY - FRIDAY	10:30	JOB 1, JOB 2, JOB 3

FIG.4B

DEFINITION OF EACH JOB CONSTITUTING A JOB NET

JOB NET A

JOB NAME	PLANNED START TIME	PLANNED END TIME	OPERATIONAL DEFINITION IDENTIFIER	COMPUTER NAME	ALTERNATIVE CANDIDATE NAME	EXECUTABLE FILE NAME	PORT NUMBER
JOB 1	9:30	10:00	1101-1	COMPUTER A	COMPUTER E	abc1.exe	2001
JOB 2	10:00	10:30	1101-2	COMPUTER B	COMPUTER F	abc2.exe	2002
JOB 3	10:00	10:30	1101-3	COMPUTER C	—	abc3.exe	2003
JOB 4	10:30	11:00	1101-4	COMPUTER D	—	abc4.exe	2004
JOB 5	11:30	12:30	1101-5	COMPUTER E	COMPUTER A	abc5.exe	2005

JOB NET B

JOB NAME	PLANNED START TIME	PLANNED END TIME	OPERATIONAL DEFINITION IDENTIFIER	COMPUTER NAME	ALTERNATIVE CANDIDATE NAME	EXECUTABLE FILE NAME	PORT NUMBER
JOB 1	10:00	10:30	1102-1	COMPUTER B	COMPUTER F	def1.exe	3001
JOB 2	10:30	11:00	1102-2	COMPUTER E	COMPUTER A	def2.exe	3002
JOB 3	11:00	11:30	1102-3	COMPUTER C	COMPUTER D	def3.exe	3003

FIG.5

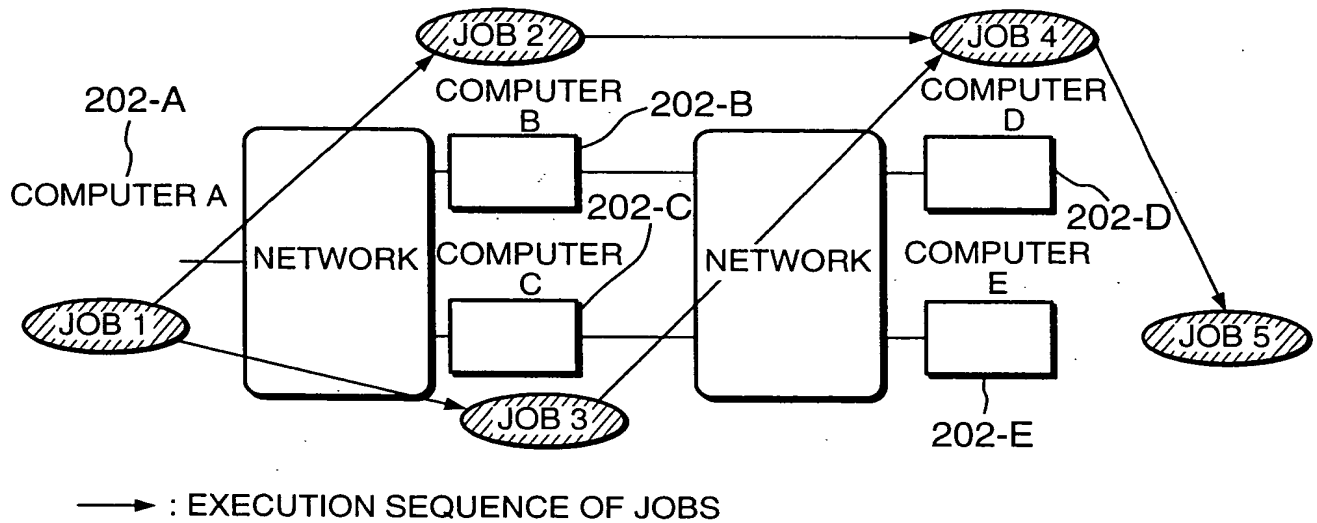
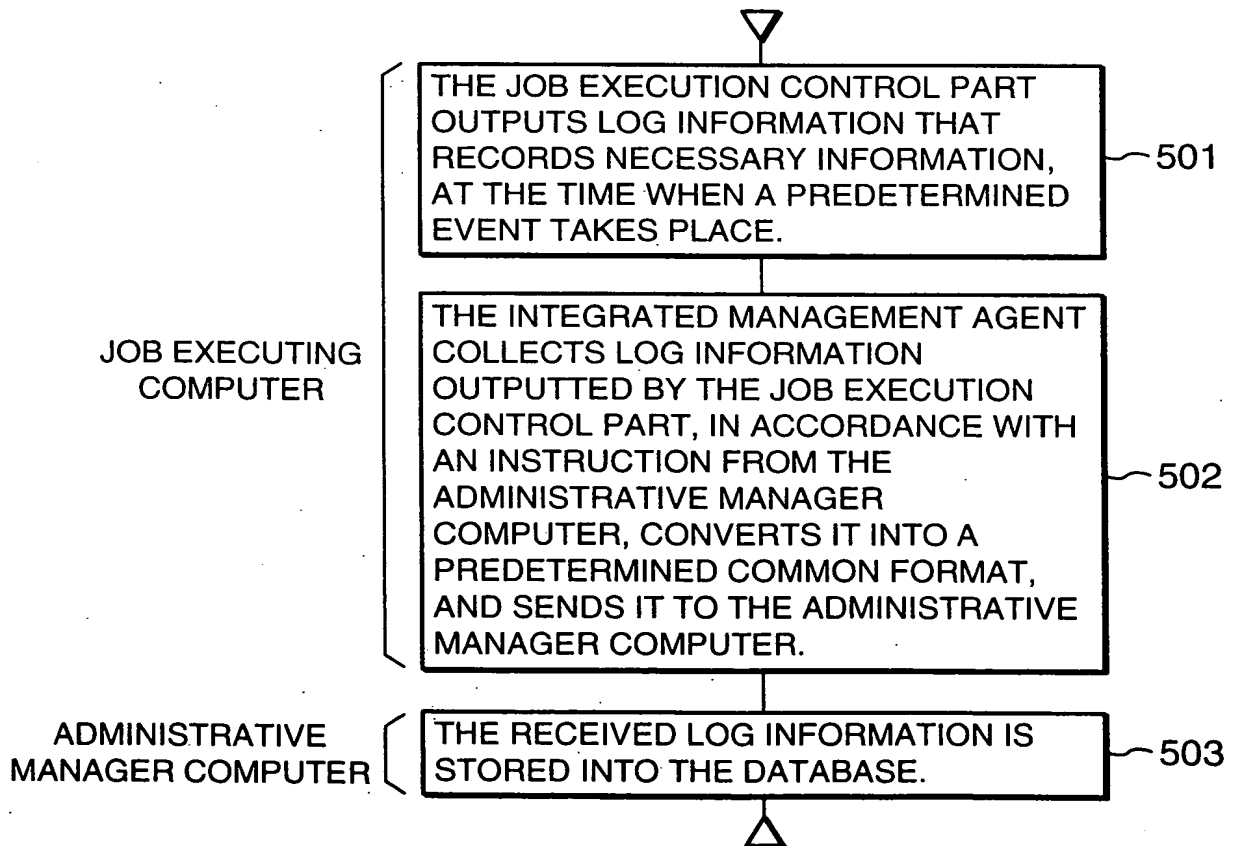


FIG.6



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FIG.7

LOG INFORMATION

1301

EVENT LOG IDENTIFIER	COMPUTER NAME	TIME	EVENT LOG CLASS	OPERATIONAL DEFINITION IDENTIFIER	DETAILED INFORMATION
1001	COMPUTER A	6/16 9:30	START OF JOB NET A	1101	NORMAL START-UP
1002	COMPUTER A	6/16 9:30	START OF JOB NET A - JOB 1	1101-1	NORMAL START-UP
1003	COMPUTER A	6/16 10:00	END OF JOB NET A - JOB 1	1101-1	NORMAL END
1002	COMPUTER B	6/16 10:00	START OF JOB NET A - JOB 2	1101-2	NORMAL START-UP
1003	COMPUTER B	6/16 10:34	END OF JOB NET A - JOB 2	1101-2	NORMAL END
1002	COMPUTER C	6/16 10:00	START OF JOB NET A - JOB 3	1101-3	NORMAL START-UP
1003	COMPUTER C	6/16 10:30	END OF JOB NET A - JOB 3	1101-3	NORMAL END
1002	COMPUTER D	6/16 10:39	START OF JOB NET A - JOB 4	1101-2	NORMAL START-UP
1003	COMPUTER D	6/16 11:09	END OF JOB NET A - JOB 4	1101-2	NORMAL END
1002	COMPUTER E	6/16 11:09	START OF JOB NET A - JOB 5	1101-2	NORMAL START-UP
1003	COMPUTER E	6/16 11:40	END OF JOB NET A - JOB 5	1101-2	NORMAL END

FIG.8

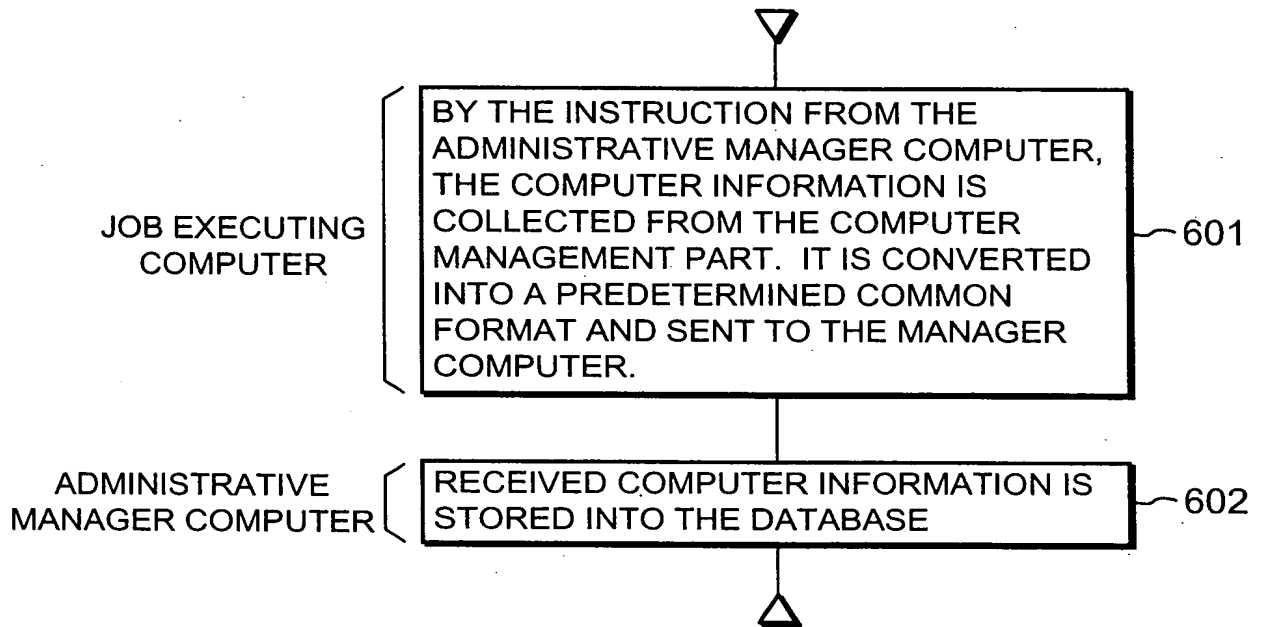
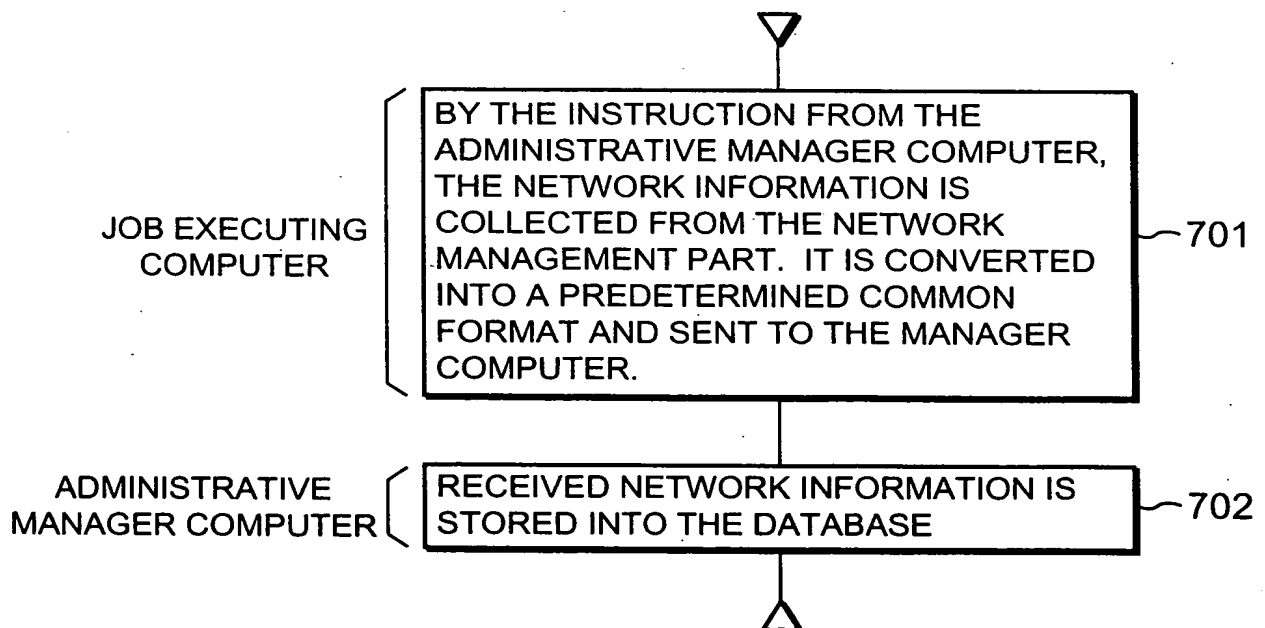


FIG.9



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FIG.10

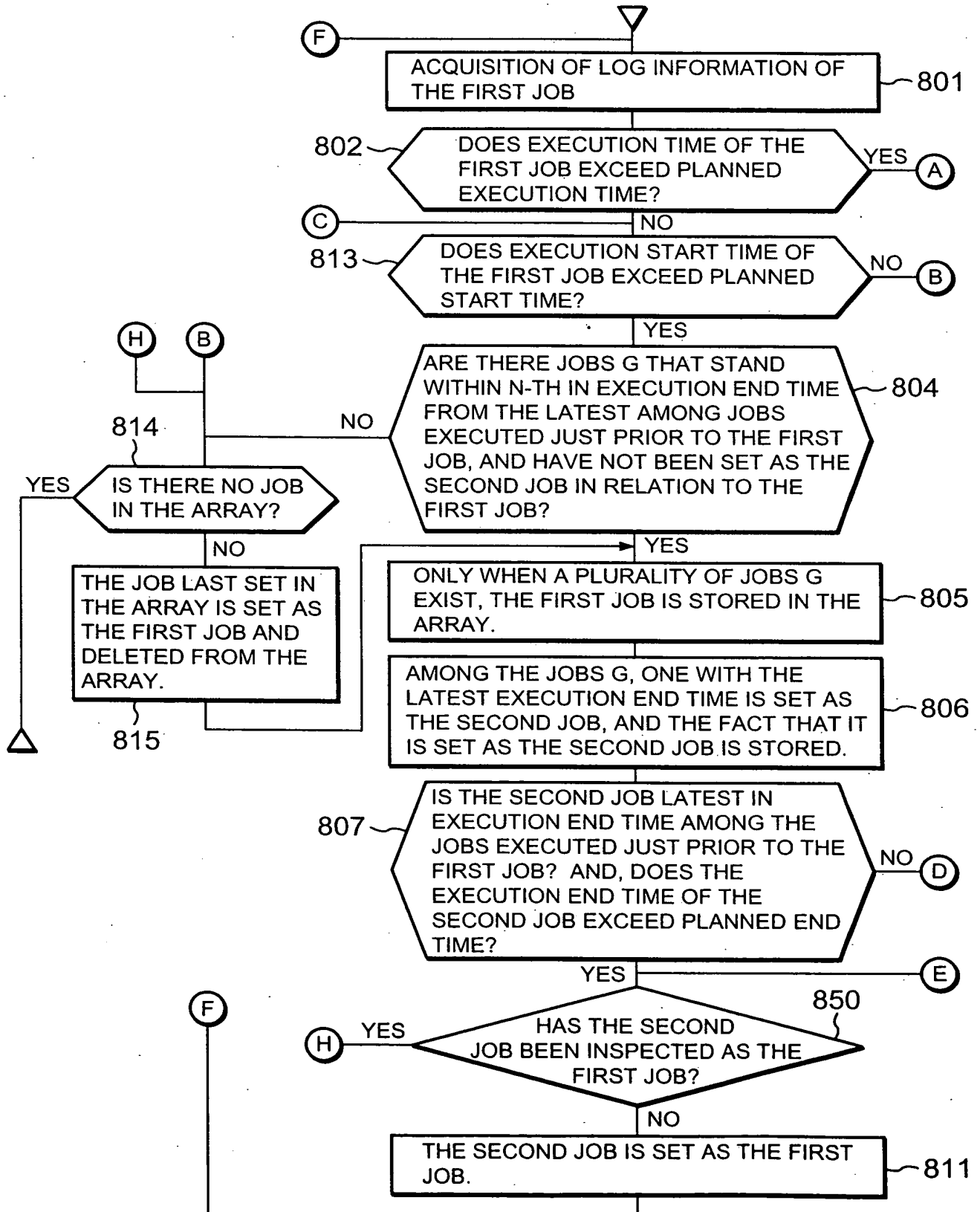


FIG.11

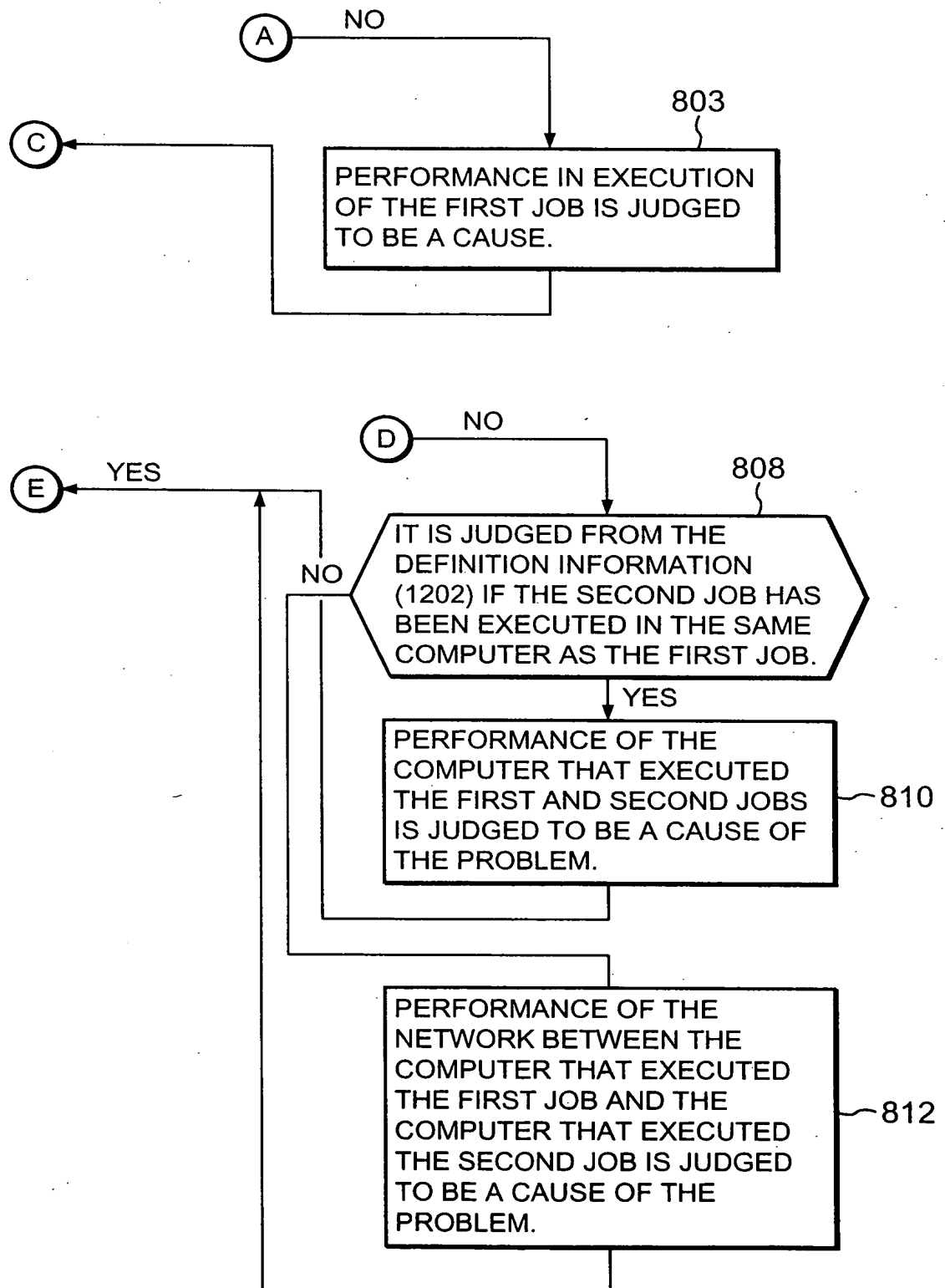


FIG.12A

901

FAULT MONITORING SCREEN

IMPORTANCE	DATE	TIME	SOURCE OF NOTIFICATION	MESSAGE
NORMAL	97/6/19	9:02:20	COMPUTER A	POWER IS TURNED ON.
NORMAL	97/6/19	9:30:00	COMPUTER A	JOB NET A IS STARTED.
NORMAL	97/6/19	11:40:00	COMPUTER E	JOB NET A IS ENDED.
ERROR	97/6/19	9:13:30	MANAGER COMPUTER	EXECUTION DELAY OF JOB NET A IS DETECTED.
902				

FIG.12B

903

DETAIL OF ANALYSIS RESULT

IMPORTANCE	DATE	TIME	COMPUTER	JOB/JOB NET NAMES	DELAY TIME	CUMULATIVE DELAY TIME	DELAY SOURCE
NORMAL	97/6/19	9:30:00	COMPUTER A	JOB NET A - JOB 1	0	0	...
ERROR	97/6/19	10:00:00	COMPUTER B	JOB NET A - JOB 2	4	4	COMPUTER
NORMAL	97/6/19	10:00:00	COMPUTER C	JOB NET A - JOB 3	0	0	...
ERROR	97/6/19	10:39:00	COMPUTER D	JOB NET A - JOB 4	5	9	NETWORK
NORMAL	97/6/19	11:09:00	COMPUTER E	JOB NET A - JOB 5	1	10	COMPUTER

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FIG.13A

DISPLAY EXAMPLE: JOB 4 IS A CAUSE OF DELAY
(JOB 4 IS HIGHLIGHTED)

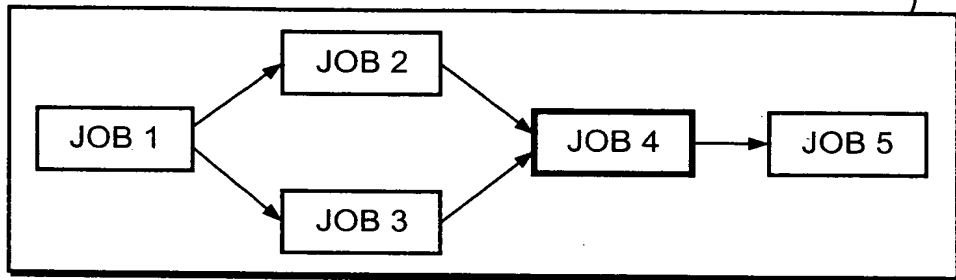


FIG.13B

DISPLAY EXAMPLE OF CONFIGURATION OF COMPUTERS
(COMPUTER IN EXECUTION OF JOB 4 IS HIGHLIGHTED)

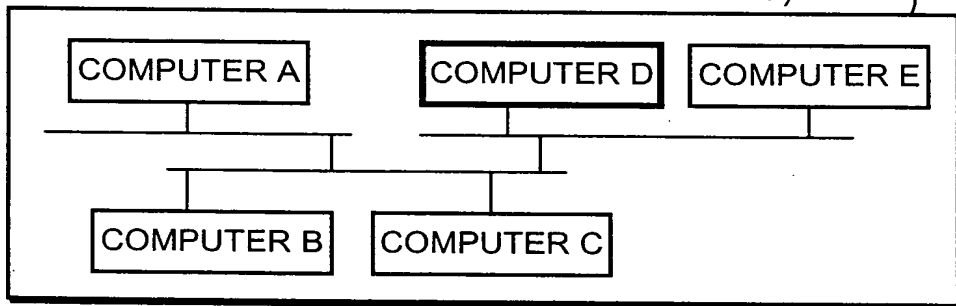
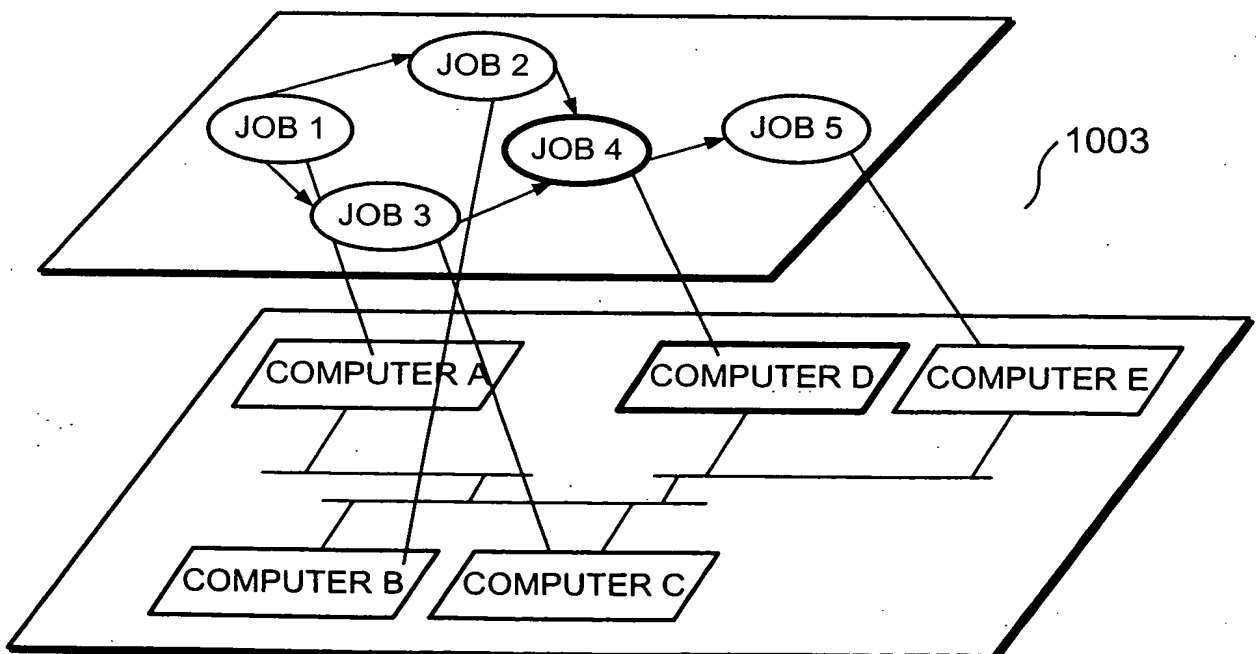


FIG.13C



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FIG.14A

DISPLAY EXAMPLE: TRANSFER BETWEEN JOB 2
AND JOB 4 IS A CAUSE OF DELAY

1101

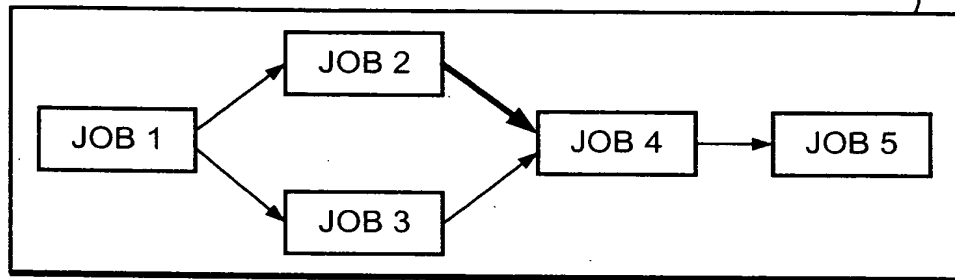


FIG.14B

DISPLAY EXAMPLE OF CONFIGURATION OF COMPUTERS
(COMPUTER B IN EXECUTION OF JOB 2 AND COMPUTER D
IN EXECUTION OF JOB 4 ARE HIGHLIGHTED)

1102

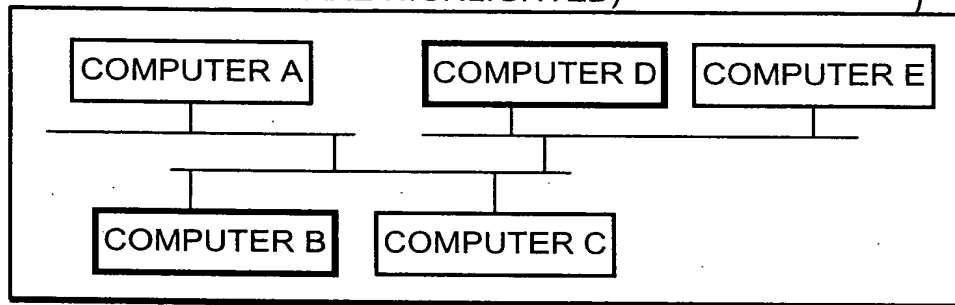
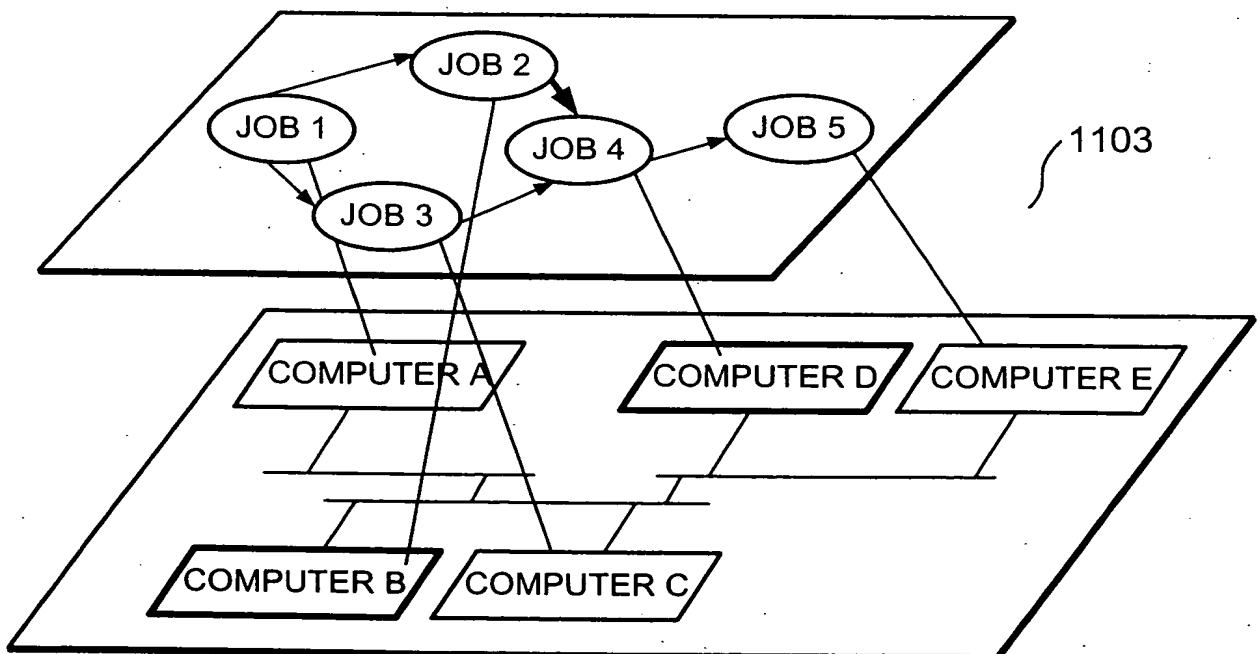
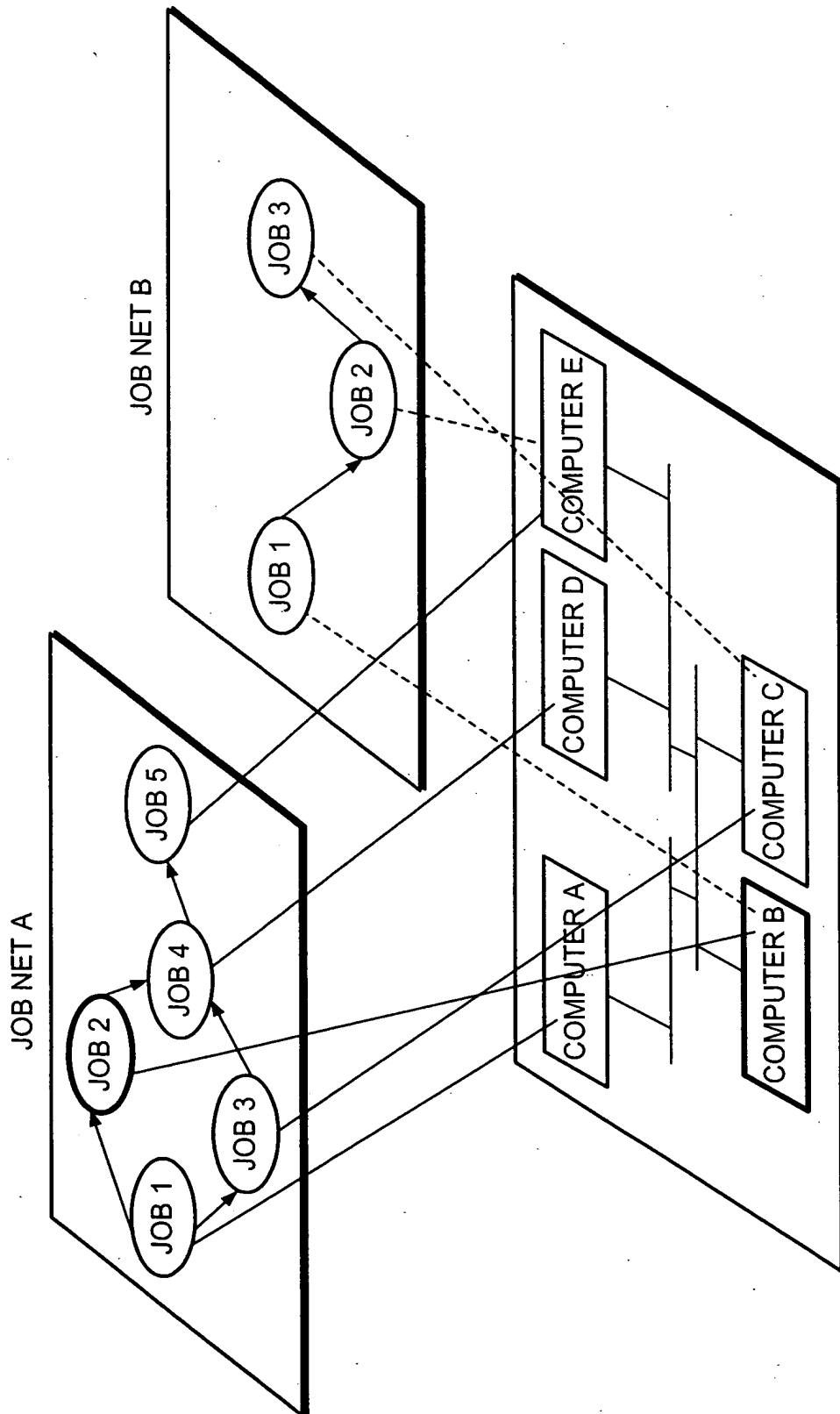


FIG.14C



1103

FIG.15



JOB 2 OF JOB NET A AND JOB 1 OF JOB NET B ARE EXECUTED IN PARALLEL IN COMPUTER B.
→ LOAD OF COMPUTER B IS PRESSED.

FIG.16

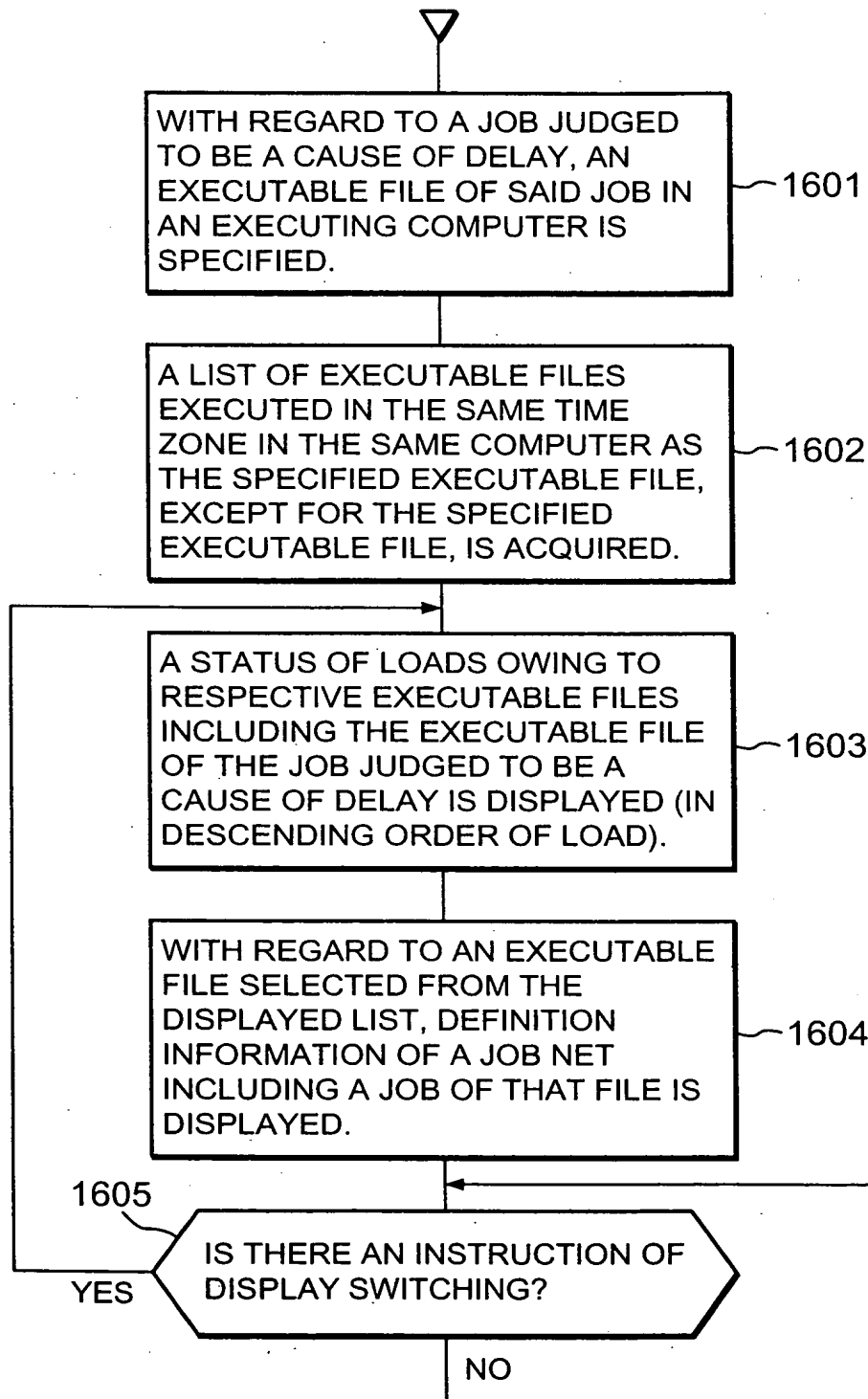


FIG.17

1701

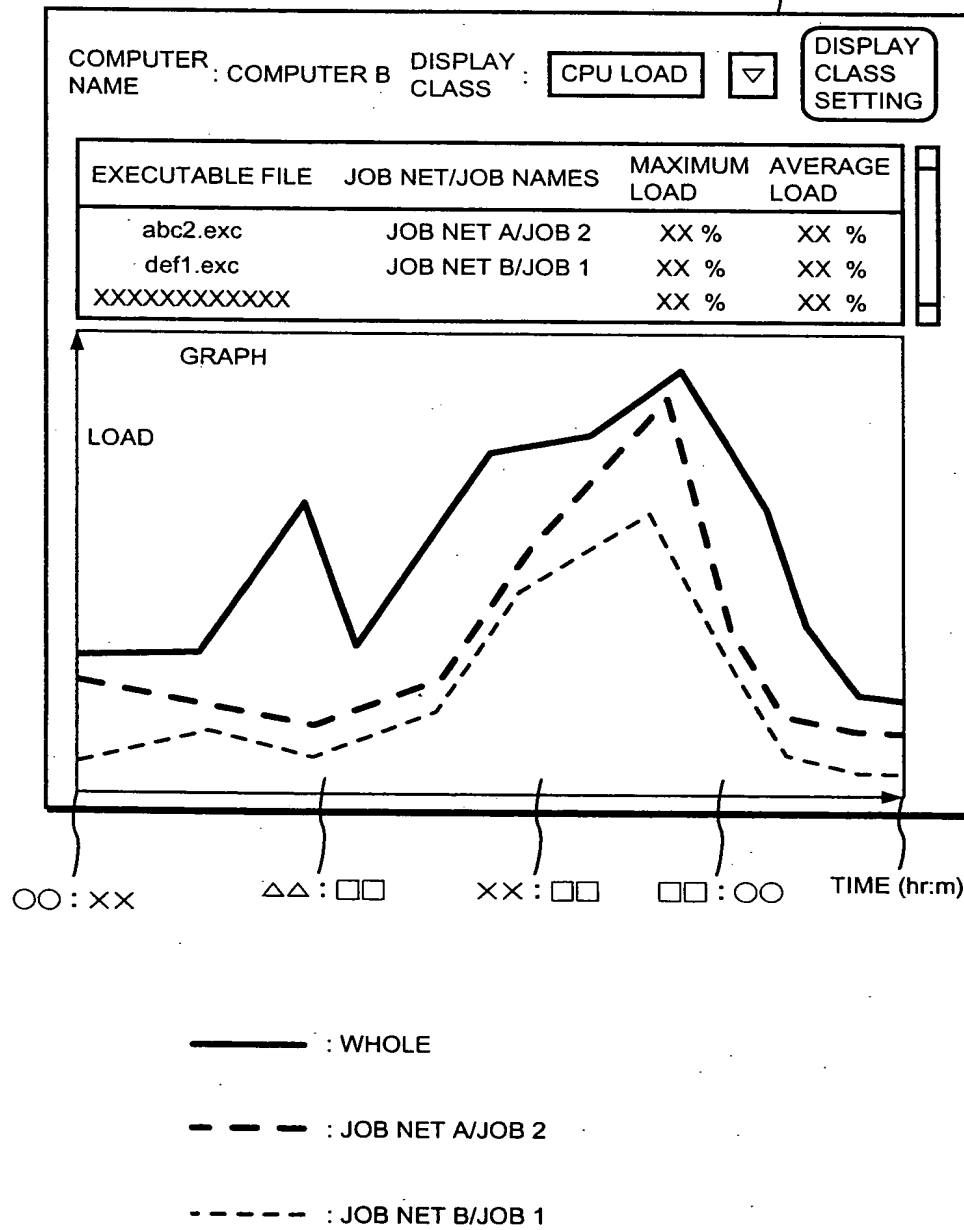
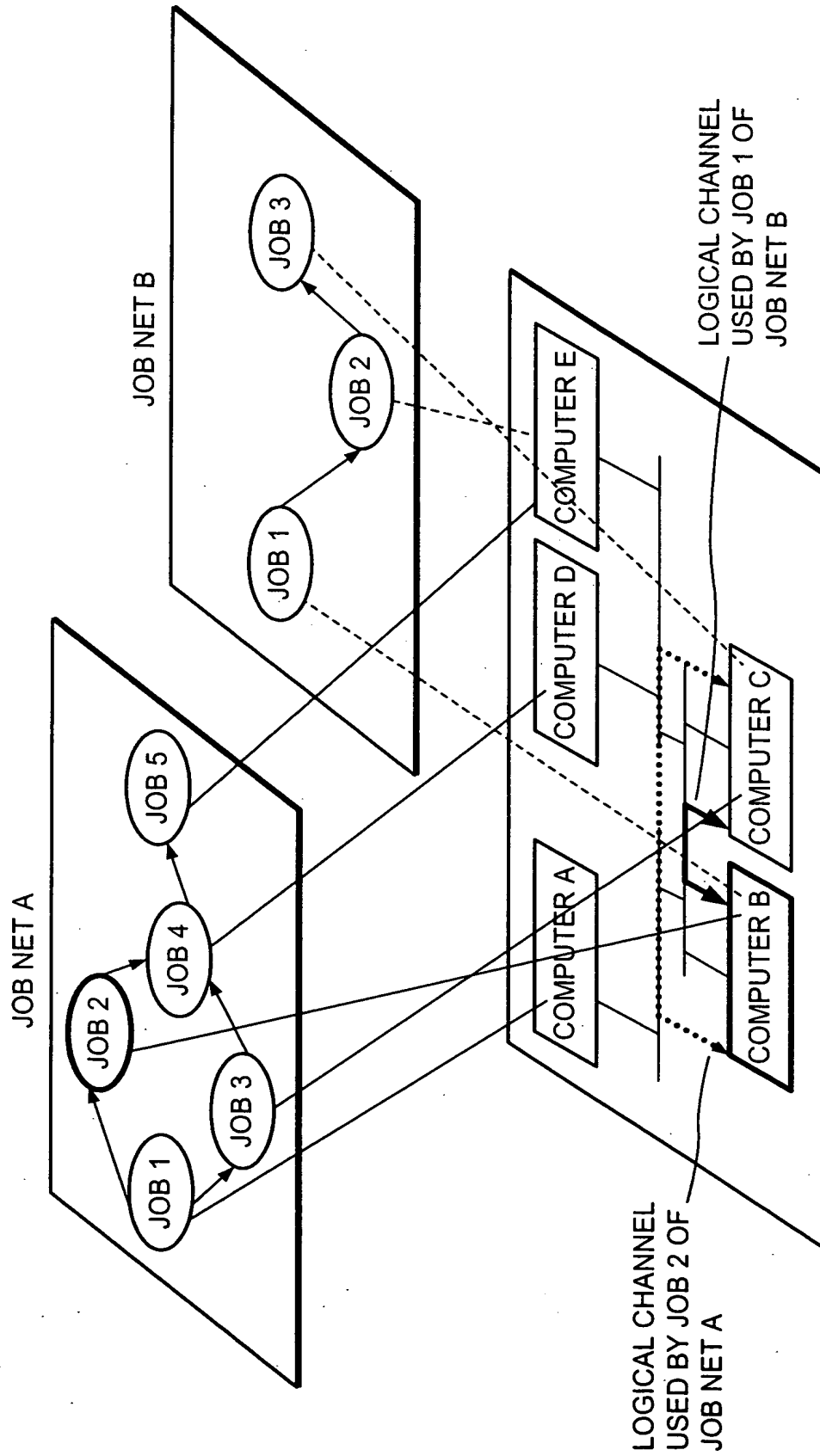


FIG.18



JOB 2 OF JOB NET A AND JOB 1 OF JOB NET B ARE EXECUTED IN PARALLEL IN COMPUTER B.
 → LOGICAL CHANNEL USED BY JOB 1 OF JOB NET B PRESSES A BAND OF A LOGICAL CHANNEL USED BY JOB 2 OF JOB NET A.

FIG.19

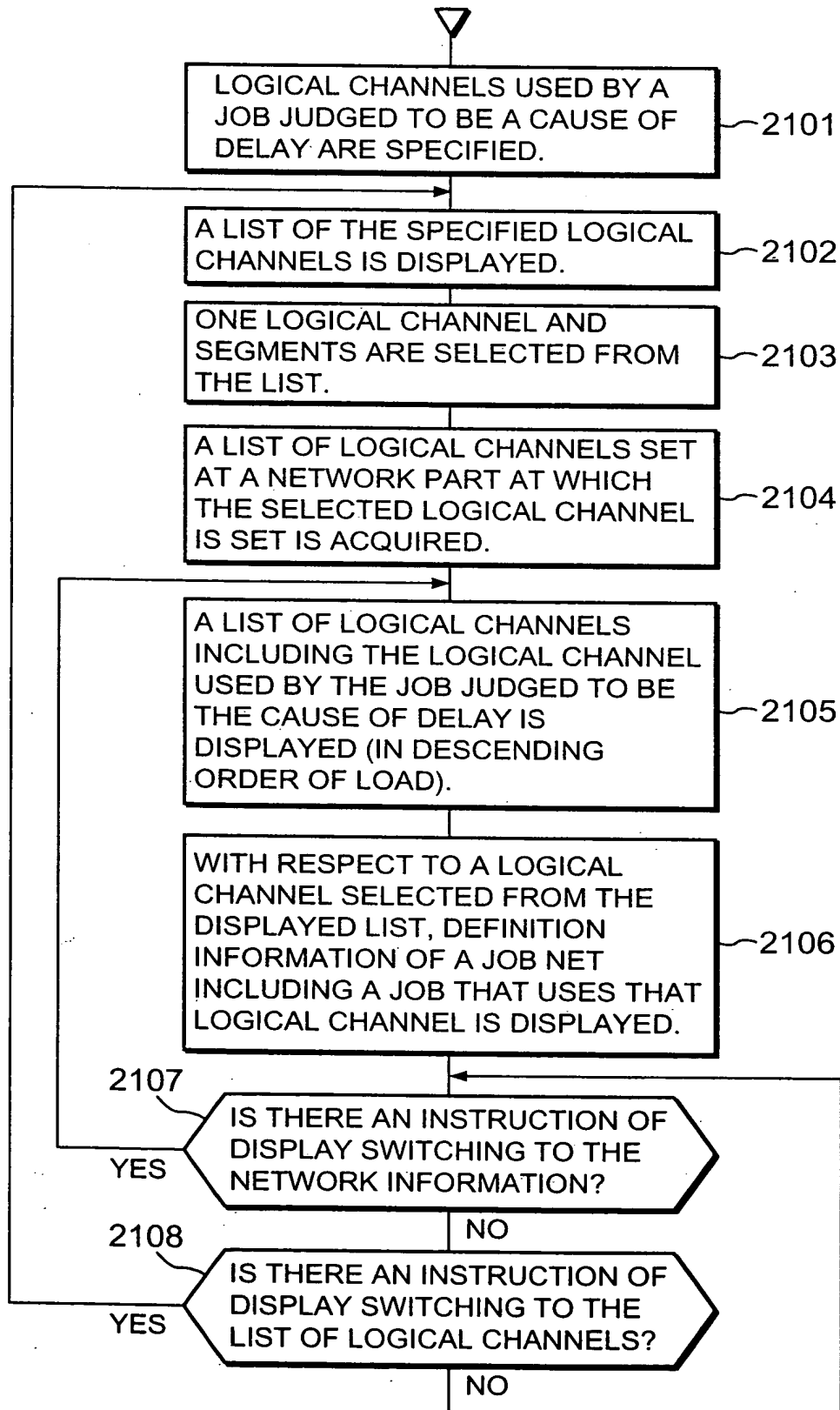


FIG.20

JOB NET/JOB NAMES: JOB NET A/JOB 2

LOGICAL CHANNEL NAME	SOURCE - DESTINATION	NETWORK NAME
2001-4000	COMPUTER B - COMPUTER C	SEGMENT A
3001-4005	COMPUTER B - COMPUTER F	SEGMENT B

FIG.21

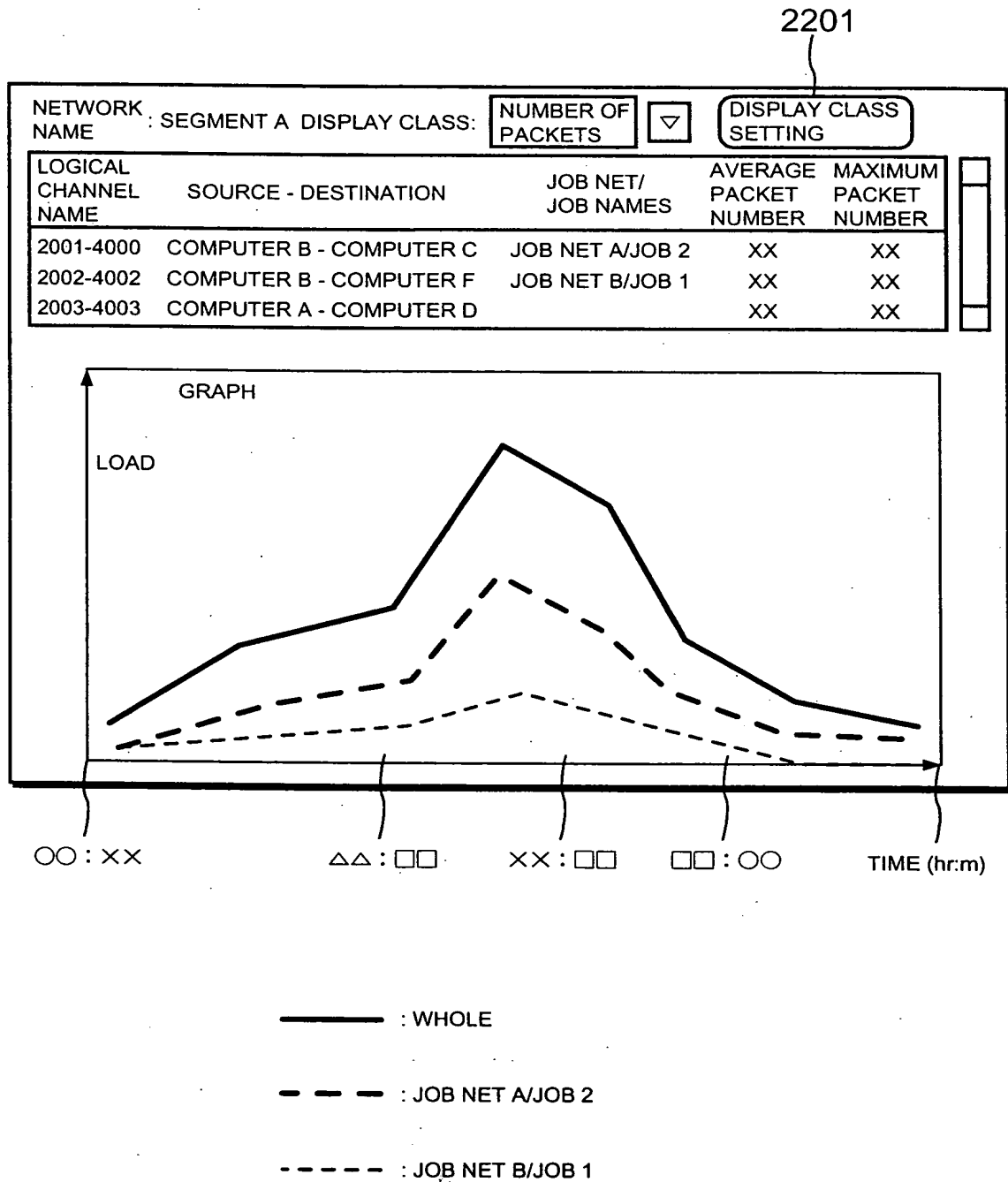


FIG.22

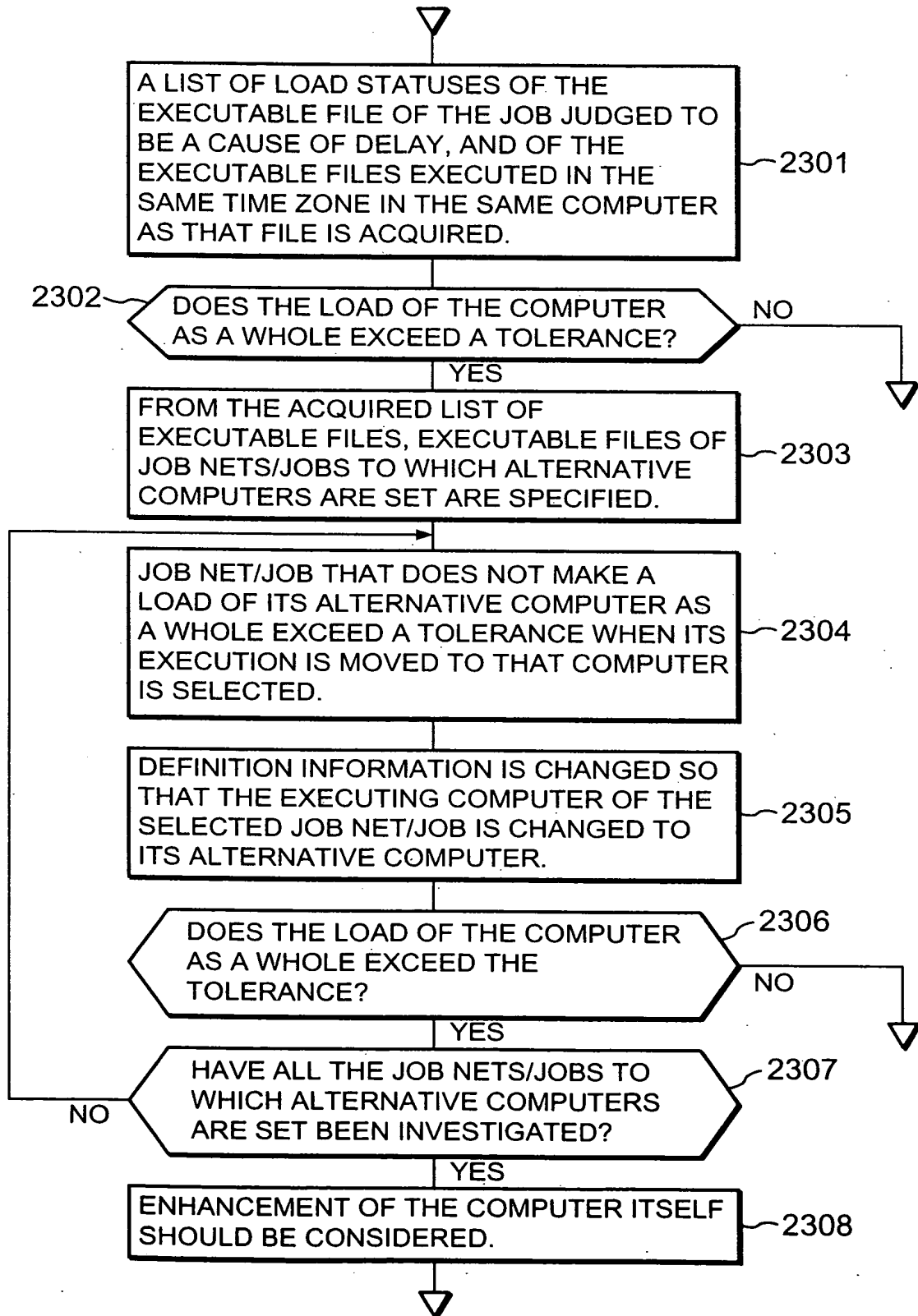


FIG.23

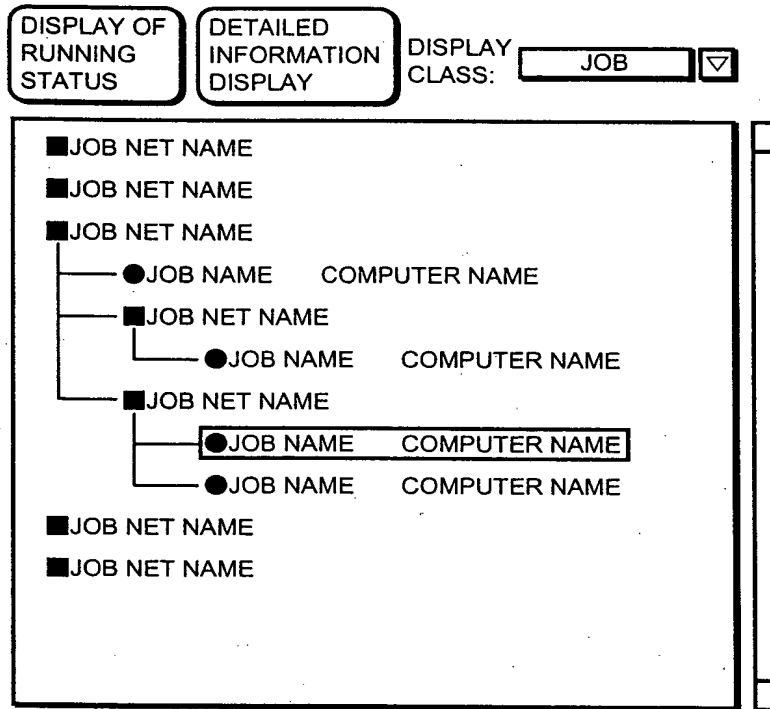


FIG.24

